BRIGADIER GENERAL PAUL S. IZZO
PROGRAM EXECUTIVE OFFICER FOR AMMUNITION,
PICATINNY ARSENAL, NEW JERSEY

Born in October 1953, Brigadier General Izzo is a native of Saratoga Springs, New York. He received his commission in 1975 as a Second Lieutenant in Armor following graduation from St. Bonaventure University where he earned a Bachelor Degree in Business Administration. In 1987, he earned a Master Degree in Management Science from Central Michigan University. His military education includes Airborne School, the Armor Officer Basic Course, Armor Advanced Course, Command General Staff College, the Defense Systems Management College, and the U.S. Army War College.

Brigadier General Izzo was named Program Executive Officer of the newly established Program Executive Office Ammunition in January 2002. He previously served as the Deputy for Systems Acquisition, U.S. Army Communications-Electronics Command (CECOM). Other recent assignments include, Project Manager for the Bradley Fighting Vehicle System (BFVS), and Executive Officer to the Military Deputy to the Assistant Secretary of the Army (Research, Development, and Acquisition). Other key assignments were PM for Constructive Simulations at STRICOM, which included developing the concept for WARSIM 2000, Operations Officer for 3-37 Armor, 1st Infantry Division during the Gulf War, Aide de Camp, Bradley and M1Al Tank Live Fire Test Officer at Aberdeen Proving Ground, MD, Operations Officer and Company Commander 2-37 Armor, 1st Armored Division, Germany, Battalion Maintenance Officer, Tank Company Executive Officer and Tank Platoon Leader, 1st Infantry Division, Fort Riley, Kansas.

Brigadier General Izzo's awards include: the Legion of Merit (2-OLC), the Bronze Star with "V" device and OLC, the Meritorious Service Medal (5-OLC), Army Commendation Medal with OLC, Army Achievement Medal with OLC, Army Staff Badge, Parachute Badge, and various other decorations for Gulf War Service.

Brigadier General Izzo and his wife, Kathleen, have four children, Amy, Paul Jr., Stephen, and Matthew.

Ammunition for Full Spectrum Warfare
and
Managing DoD's Ammunition Industrial Base

PEO
Ammunition
Joint Lethality

24 June 2003

BG Paul S. Izzo
Program Executive Officer, Ammunition

Where PEO Ammo Programs Came From

Established: January 1, 2002

PEO GCS
- PM ARMS
- PM TMAS
- PM Crusader (MACS)

 # Programs 23

DSA-TACOM
- PM Mines
- PM Mortars
- PM Small Arms

 # Programs 74

AMC/DCS Ammo
- Training Ammo
- Industrial Base
- Demil
- ARDEC (Fuze Programs)

 # Programs 94

PEO Ammo
- PM MAS
- PM CAS
- PM CCS
- PM Joint Services

Total People Managed 725 at Picatinny

ARDEC Life-Cycle Engineering Support:
- Competencies
- Modeling and Simulation
- Technology Maturation
- Sustainment Support

Total RDA Programs 191 programs

Total Dollars $1,253.6 M

PEO Ammo

MISSION

Develop and Procure Conventional and Leap-Ahead Munitions Combat Power to Warfighters

GOALS

- Get PGM's & Smart Weapons to Warfighters
- Improve and Sustain the Conventional Stockpile
- Satisfy the Customer, Achieve Excellence
- Grow World-Class People and Teams

PEO Ammo Organization

PEO Ammunition

BG Paul Izzo — PEO
Mr. Kevin Fahey — DPEO

Industrial Base

Close Combat Systems

Mr. Jim Sutton — PM

- Networked Munitions/ Munitions / Countermine
- Demolitions / Non-Lethal

Combat Ammo Systems - Indirect Fire

COL Nate Sledge — PM

- Mortars
- Excalibur

Maneuver Ammo System - Direct Fire

Mr. Bill Sanville — PM

- Large Caliber
- Medium & Small Caliber

Joint Services

COL Jeff Gwilliam PM

- DEMIL

ASAALT Operations Cell

- PEO Ammunition was located at the ASA(ALT) OPS Cell in support of Operation Enduring Freedom and Operation Iraqi Freedom
- Mission:
  - ✓ Account for all ASA(ALT) personnel in theater
  - ✓ Provide readiness link to PEOs for quick reaction to war-fighter
  - ✓ Support Battle Damage Assessment (BDA)

MAJ Jason Robbins and MAJ Joe Hitt, PEO Ammo LNOs

Close Combat Systems Mission

Equip Soldiers with Close Combat Systems for:

Assured Mobility	Force Protection	Close Battle
Intelligent Munitions System	APLA	Hard Target Defeat
Anti-Personnel Landmine Alternative (APLA)	Countermine	Demolitions
Countermine	Non-Lethal	Hand Grenades
Demolitions	Pyro/Flares	Non-Lethal
	EOD Equipment	Pyro/Flares

SBCT Volcano

15 Prime Contractors
- 30 Contracts

GOCOs
JMC

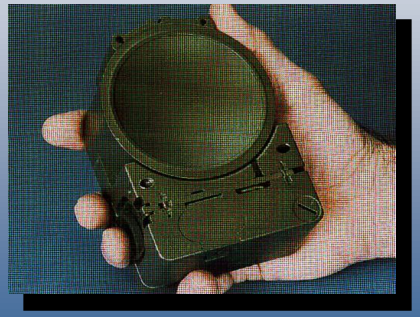
R&D Establishments
- TARDEC
- ARDEC
- ARL
- CERDEC

Combat Developers
- USAES
- USAMPS
- USAFAS
- USASOC
- USAIS
- USMC

Bunker Defeat Munition

AN/PSS-14
Mine Detecting Set (HSTAMIDS)

M67 Hand Grenade



Selectable Lightweight
Attack Munition

Non-Lethal Capability Set

AN/PSS-14 in Afghanistan

Four (4) US Army Soldiers sweep an area for landmines near Bagram Military Base - May 03

A U.S. soldier sweeps for landmines at Bagram military base in Afghanistan March 6, 2003. Despite a massive mine clearance effort, 80 to120 people are maimed or killed by landmines every day in war-torn Afghanistan, the most heavily mined country in the world. REUTERS/Jayanta Shaw - *Mar 07 6:02 AM ET*

Urgent Fielding / Support Readiness

- **Examples include:**
  - ✓ **Non-lethal munitions and riot control equipment for EPW Camp and SASO support**

EPW Camp near Um Qasr, Iraq

- **Three Non-lethal Capability Sets provided**
  - ✓ **Non–lethal munitions and riot gear**

Theater Distribution Center (TDC). PEO Ammo personnel assisted in tracking parts.

Unserviceable MOPMS. PEO Ammo developed a repair procedure to quickly fix the cracks.

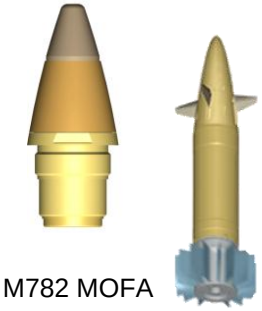
HSTAMIDS Battery Cover. PEO Ammo FEDEX'd the parts to the PEO Ammo LNO on the ground.

PM Combat Ammunition Systems

LCCM

795 E1

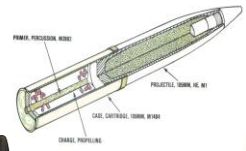
Excalibur Discriminating



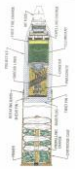
M782 MOFA

Excalibur Unitary

M1155 PIAFS



105mm M1 HE



105mm M314A3 Illum

105mm M915 DPICM

155mm M795 HE Projectile

155mm M107 HE

155mm M804A1 Practice

Time

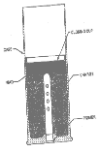
M767

MOUT

MK399 MOD1

M782 MOFA

M762 ET

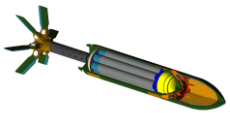


75mm M337A2 Blank

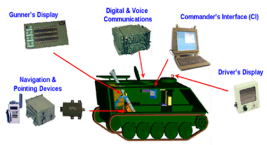
155mm M231/M232 Prop

Concept | **Development** | **Production**

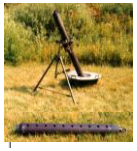
Mortars



120mm XM984 DPICM



(MFCS) Heavy



120mm Training Insert, M303

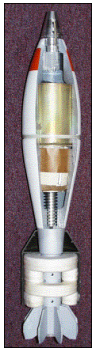
MBC

Mortar Fire Control System - Light (MFCS-L)

120mm XM395 (PGMM)

60mm M769 FRPC

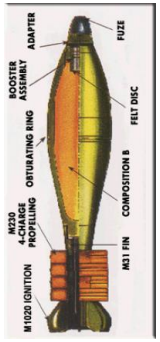
81mm M853A1 Illum



120mm M983 IR

60mm M720A1 HE

81mm M821A1/M889 A1 HE



120mm M934 HE

Concept | **Development** | **Production** | **Sustainment**

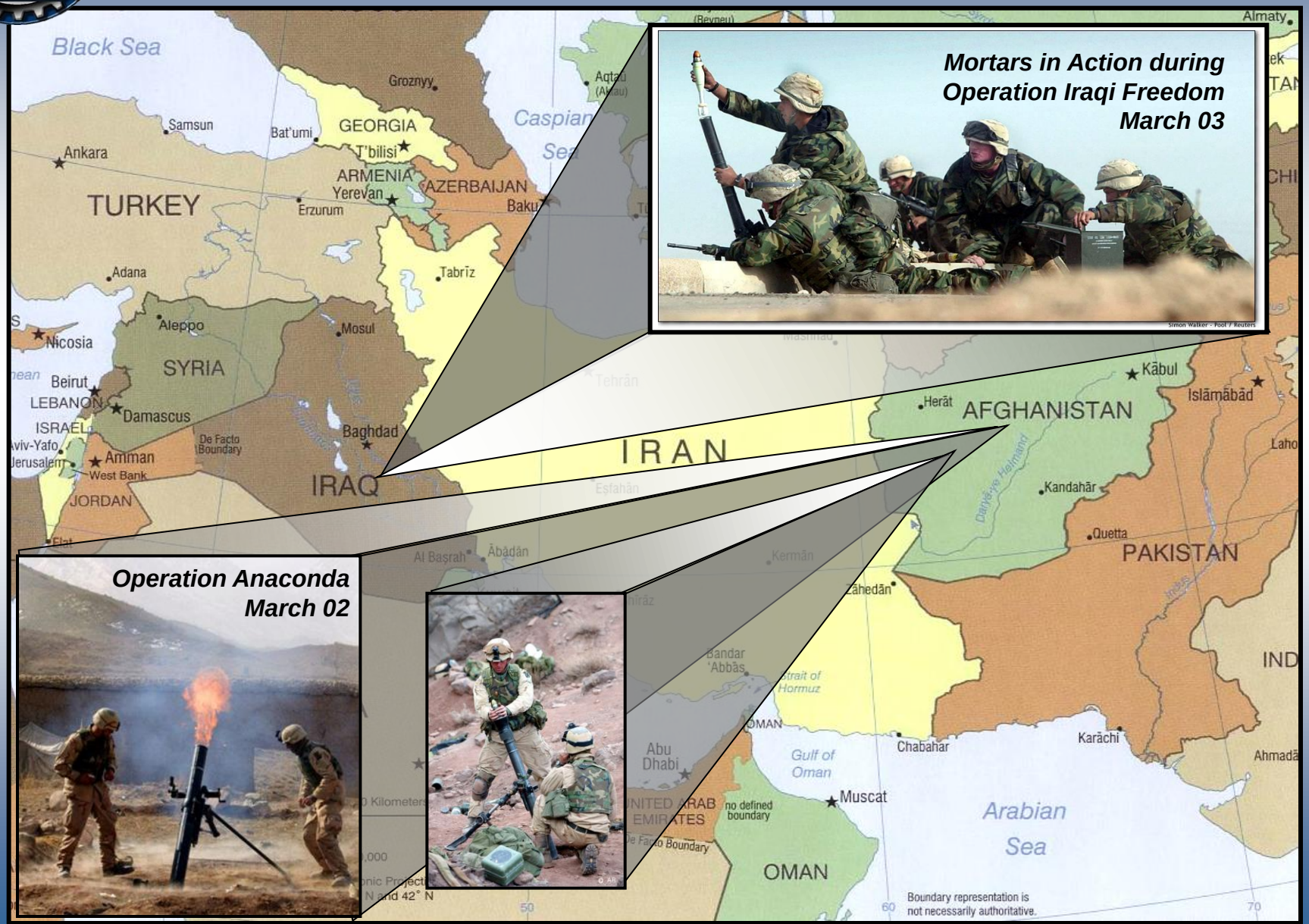
Mortar Fire Control System (MFCS)

1st Cav. Div.
Fort Hood, Texas

Operation
Iraqi Freedom

- Completed Initial Operational Testing and Evaluation (IOT&E) November 2002
- Type Classified (TC) April 2003
- MFCS Conditional Materiel Release (CMR) May 2003
- Accelerated fielding to 1st CD May 2003
  in support of Operation Iraqi Freedom

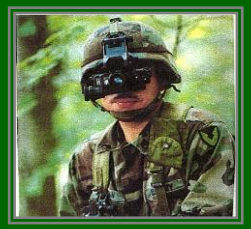
Mortar Systems In Action

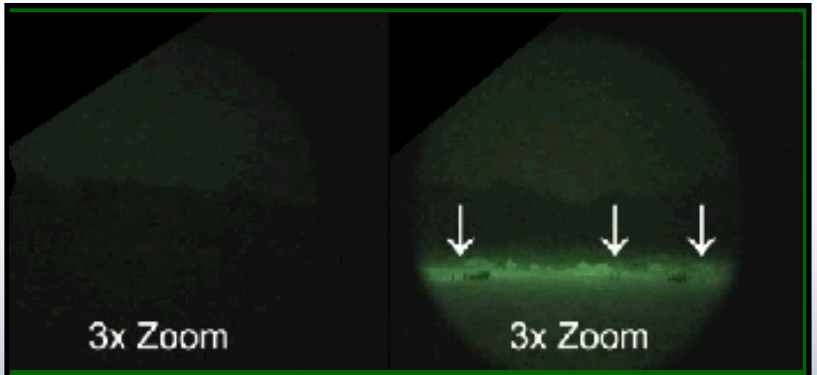


Mortar Illuminating Cartridges

User Payoff

- Illuminate throughout range of HE
- Exceeds ORD burn time
- Sharper Images
- Leverages NVD Capabilities
- Validates "Own the night"





Moonless Night *120mm IR Illum @ 680 m*

120mm XM930 Visible / M983 Infrared (IR)

81mm M816 Infrared (IR)

60mm M767 Infrared (IR)

60mm & 81mm Mortar Systems now equipped with IR Illums

The World's First IR Illuminating Mortar Cartridge

"IR ILLUMINATION WAS VERY USEFUL. 60MM PROVIDED EXCELLENT IR ILLUMINATION WHILE USED IN THE HAND HELD MODE."

Quote from SFC Jeff McLaughlin HHC 75th Ranger Regiment and SFC Joe C. Davis, HHC 3rd BN 75 Ranger Regiment

Operation Iraqi Freedom

PM Maneuver Ammunition Systems
Large Caliber Ammunition

KE-WA2 M829A3 M829A2 XM1002 XM908 M830A1 XM1028 MRM XM1040 M393A3 M467A1

PM Maneuver Ammunition Systems
Large Caliber

- Rounds Used in Abrams Tank Included M829A1/A2 APFSDS-T; M830 HEAT; M830A1 HEAT-MP-T
  - ✓ Many more Chemical Energy Rounds Utilized than Kinetic Energy
- USMC used M830A1
  - ✓ Outstanding Performance
    - Useful Against Structures
- US Army used M830's
  - ✓ Rounds Met Performance
- 2,000 M908 HE-OR-T Rounds shipped to theater
  - ✓ Concurrent Worldwide Material Release and Shipping
  - ✓ On time, but never used
- Assessing After Action Reports
  - ✓ M829E1 Complaints
    - Remained in Theatre after Desert Storm
      - Was Issued, but should not have been there
    - Glue Joint Separations after Years of High Temperature Exposure
      - Glue Joint Improved in Newest Rounds
    - Arrangements made to get back to CONUS

Small & Medium Caliber Ammunition

PM Maneuver Ammunition Systems Small & Medium Caliber

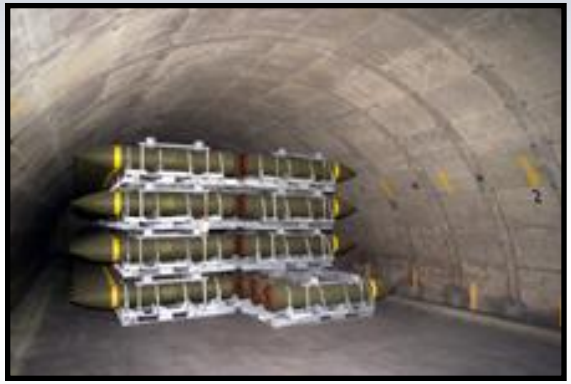
- **Bradleys:**
  - ✓ **First use of 25mm M919 in Combat**
    - **Outstanding Performance**
- **Apache/Blackhawks:**
  - ✓ **High Demand for HEDP M789**
  - ✓ **FMS Buy Diverted / Urgency Buy Initiated**
- **MK19/M203:**
  - ✓ **Thermobaric Round Fielded**
- **M16/M4: M855**
  - ✓ **70% of Assets Expended**
- **Assessing After Action Reports**
  - ✓ **Improved M855 Stopping Effects Desired for Close in Combat**
    - **Currently Testing Lethality of over 20 Potential Replacements**

PM Joint Services

Single Manager for Conventional Ammunition (SMCA)

- **<u>SMCA Mission:</u> Manage DoD conventional ammunition**

<u>SMCA Total:</u>
$1.3B for FY04,
166 items
All Services



- **<u>Objectives:</u> Achieve excellence in acquiring top quality conventional ammunition for U.S. Forces**

Industrial Base Management

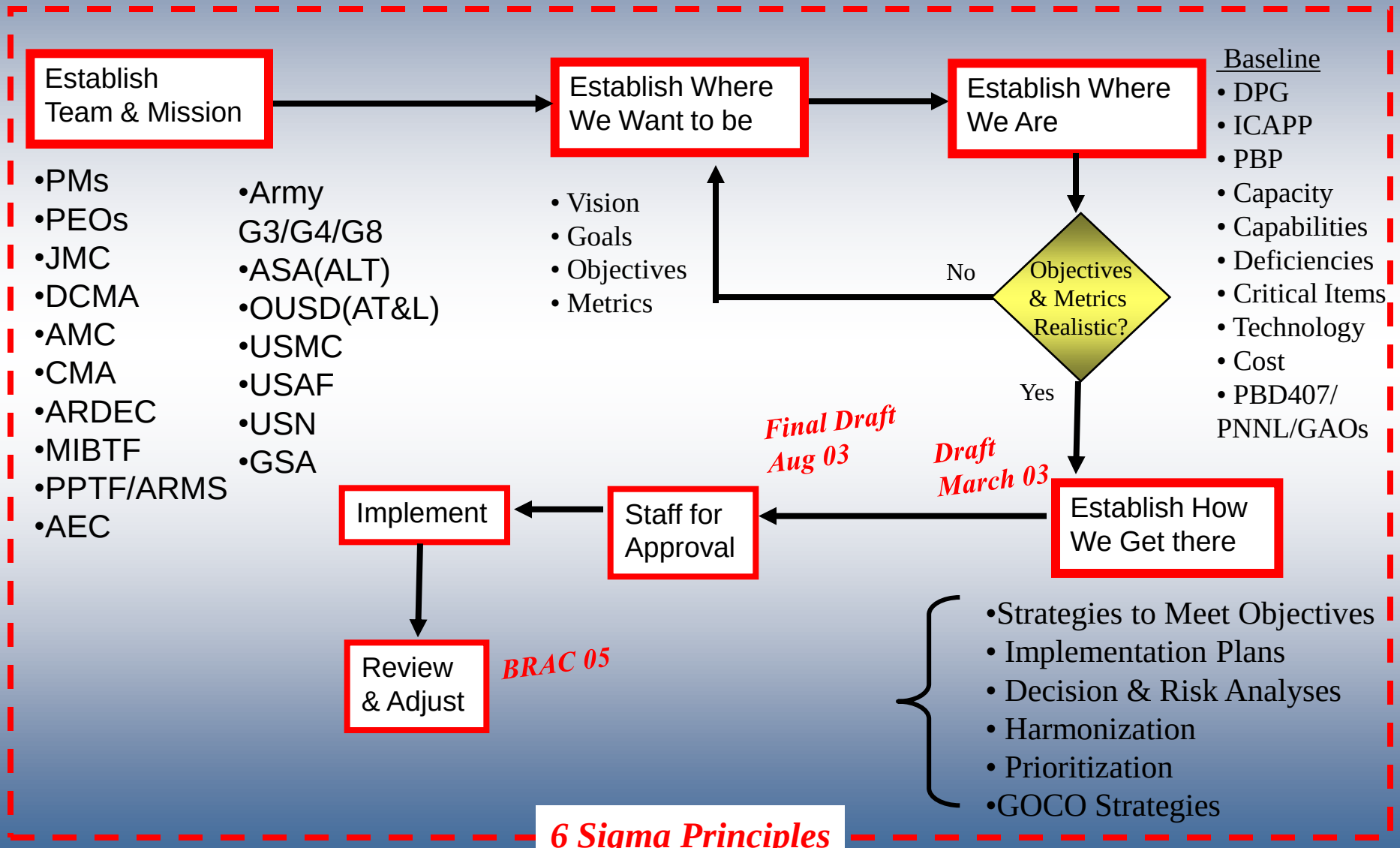
- **Mission:**
  - ✓ **Provide Integrated Management of the Ammunition Industrial Base**
  - ✓ **Optimize Planning, Coordination & Decision Making that Affects the Preparedness of the National Technology & Industrial Base**
- **General Responsibilities:**
  - ✓ **Perform Industrial Base Management**
    - **Develop an Overarching Industrial Base Strategic Plan**
    - **GOCO Production Management and Modernization Strategies**
    - **Develop a Production Base Plan**
  - ✓ **Implement Section 806, Public Law 105-261, Procurement of Conventional Ammunition**

Integrated Product Team

•PEOs	•JMC	•Army G3/G4/G8	•USMC
•PMs	•CMA	•ASA(ALT)	•USAF
•DCMA	•ARDEC	•OUSD(AT&L)	•USN
•AMC	•Industry	•GSA	•ACSIM/AEC

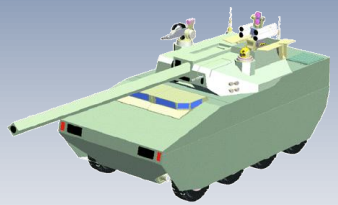
IPT Jointly Planning & Executing

Strategic Planning Approach



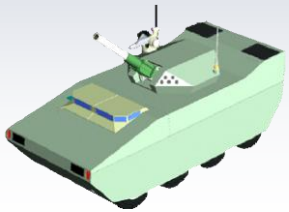
PEO Ammo's Efforts Are Aligned With LSI's Family of Combat Systems

120mm BLOS / LOS



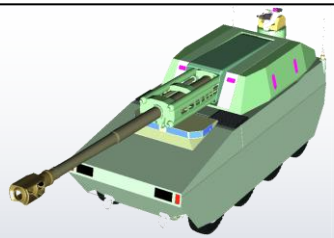
- MRM
- Advanced KE
- Advanced Multi-Purpose Anti-Tank (MPAT)
- Lt Wt 120mm Cannon

120mm Mortar



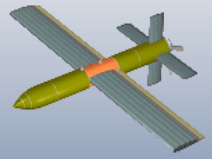
- Precision Guided Mortar Munition (PGMM)
- Mortar Fire Control
- Advanced Mortar System (AMOS)

155mm NLOS



- XM982 Excalibur
- Low Cost Course Correction
- Next Generation Scatterable Mines (NGSM)

SUAV



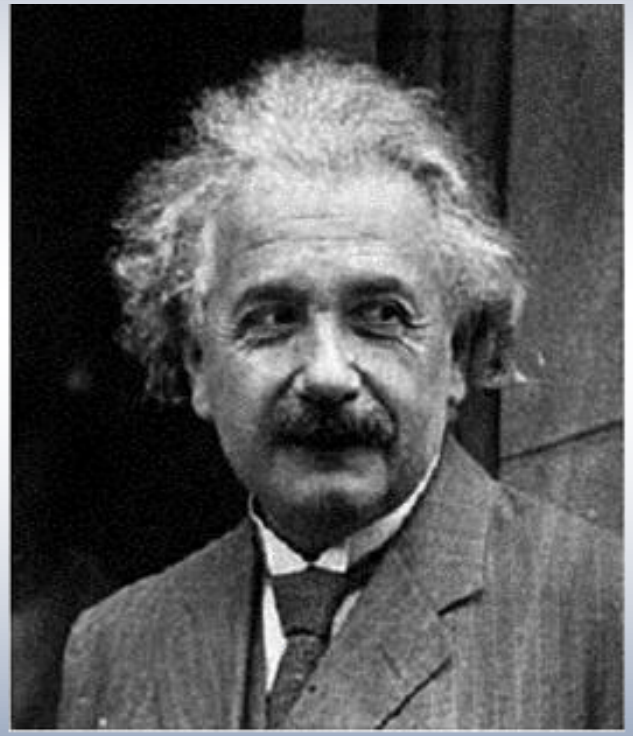
- Intelligent Munitions System (IMS)
- Quicklook
- Air Standoff Mine Detection System (ASTAMIDS)

Infantry Carrier Vehicle

- Bursting Munitions
- Medium Caliber Program
- Ground Standoff Mine Detection System

Conclusion

We cannot solve our problems …



… with the same thinking we used when we created them.

PEO Ammunition

Joint Lethality